

# Mathematics

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# **Chapter 1**

Lesson 1	Multiplication	eauation

Lesson 2 Properties of multiplication

Lesson 3 Estimate the product

Lesson 4 Division

Lesson 5 Relation between multiplication and division



#### Revision: Multiplication tables

Multiples of 1 1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 Multiples of 2 2 , 4 , 6 , 8 , 10 , 12 , 14 , 16 , 18 , 20 Multiples of 3 3 , 6 , 9 , 12 , 15 , 18 , 21 , 24 , 27 , 30 Multiples of 4 4 , 8 , 12 , 16 , 20 , 24 , 28 , 32 , 36 , 40 Multiples of 5 5 , 10 , 15 , 20 , 25 , 30 , 35 , 40 , 45 , 50 Multiples of 7 7 , 14 , 21 , 28 , 35 , 42 , 49 , 56 , 63 , 70 Multiples of 8 8 , 16 , 24 , 32 , 40 , 48 , 56 , 64 , 72 , 80 Multiples of 9 9 7 18 , 27 , 36 , 45 , 54 , 63 , 72 , 81 , 90 Multiples of 10 10 , 20 , 30 , 40 , 50 , 60 , 70 , 80 , 90 , 100

# **Multiplication equation**



## Multiplication equation

• Multiplication is a repeated addition of the same number.

5 × 3

$$3 + 3 + 3 + 3 + 3$$

5 × 3

# 1 Write the multiplication equation:

4

4 4 4 4 4

..... × .....

2+2+2+2

×

2 2 2

.....× .....

1	+	1	+	1	+	1	+	1	+	1	+	1	+	1
	т	_	т	_	Т	_	Т	_	T	_	Т	_	т	_

..... × .....

7 7 7 7 7 7 7

.....× .....

5+5+5

\_\_\_\_×

6 6 6 6 6

..... × .....

9+9+9+9+9+9

×

3 3 3 3 3 3

..... × .....

8+8+8+8+8

..... × .....



#### Commutative property

**Ex:**  $3 \times 5 = 5 \times 3$ 

# 1 Complete:

$$14 \times 2 = \dots \times 14$$

$$7 \times \ldots = 3 \times 7$$

$$20 \times 50 = \dots \times 20$$

$$4 \times 3 = 3 \times \dots$$

.... 
$$\times 9 = 9 \times 1$$

$$17 \times 3 = 3 \times ....$$

$$0 \times .... = 8 \times 0$$

## 2 Choose:

a) Which of the following represent commutative property?

$$3 \times 4 = 12$$

$$4 \times 5 = 5 \times 4$$

b) Which of the following represent commutative property?

$$3 \times 1 = 3$$

$$7 \times 7$$

C) Which of the following represent commutative property?

$$7 + 0 = 7$$

$$2 \times 2 = 4$$

$$1 \times 9 = 1 \times 9$$

d) Which of the following represent commutative property?

$$3 \times 3$$

$$6 \times 4 = 4 \times 6$$

$$9 \times 10 = 90$$

e) Which of the following represent commutative property?

$$8 \times 5 = 5 \times 8$$

$$6 \times 8 = 48$$

$$12 = 10 + 2$$

• Apply the commutative property of multiplication to solve problems.

### properties of multiplication



### Associative property

• We can use associative property when we multiply 3 or more numbers.

$$3 \times 5 \times 2$$

#### $3 \times 5 \times 2$ or $(3 \times 5) \times 2$ or $3 \times (5 \times 2)$

# 1 Complete:

$$(4 \times 5) \times 3 = \dots \times (5 \times 3)$$

$$(6 \times 1) \times 8 = 6 \times (1 \times ....)$$

$$(7 \times 9) \times 2 = 7 \times (\dots \times 2)$$

$$(4 \times .....) \times 6 = 4 \times (5 \times 6)$$

$$(.... \times 9) \times 5 = 3 \times (9 \times 5)$$

$$(1 \times 3) \times 2 = \dots \times (3 \times 2)$$

$$(8 \times \dots) \times 5 = 8 \times (0 \times 5)$$

$$(9 \times 3) \times 7 = 9 \times (\dots \times 7)$$

$$(6 \times 3) \times \dots = 6 \times (3 \times 8)$$

$$(..... \times 4) \times 8 = 2 \times (4 \times 8)$$

$$(7 \times 5) \times 3 = 7 \times (5 \times \ldots)$$

$$(1 \times 6) \times 7 = \dots \times (6 \times 7)$$

## 2 Choose:

3

a) Which of the following represent associative property?

$$(4 \times 2) \times 5 = 4 \times (2 \times 5)$$

$$3 \times 5 = 5 \times 3$$

b) Which of the following represent associative property?

$$8 \times 4 = 4 \times 8$$

$$(6 \times 1) \times 7 = 6 \times (1 \times 7)$$

c) Which of the following represent associative property?

$$(2 \times 5) \times 7 = 2 \times (5 \times 7)$$

$$7 \times 7 = 49$$

$$2 \times 9 = 2 \times 9$$

#### Exercises: Associative property



$$1 \times 8 = 8 \times 1$$

$$1 \times 8 = 8 \times 1$$
  $(3 \times 6) \times 9 = 3 \times (6 \times 9)$ 

e) Which of the following represent associative property?

$$9 \times 7 = 7 \times 9$$

$$9 \times 7 = 7 \times 9$$
  $(2 \times 4) \times 8 = 2 \times (4 \times 8)$   $22 = 20 + 2$ 

$$22 = 20 + 2$$

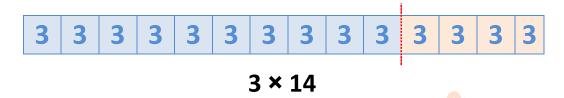
# Find the product:

#### properties of multiplication



#### Distributive property

 We can decompose a multiplication problem into two or more smaller problems, and then add their products to get the final answer.



EX: 
$$3 \times 14 = 3 \times (10 + 4)$$
  
=  $(3 \times 10) + (3 \times 4)$   
=  $30 + 12 = 42$ 

## Find the product:

#### Exercises: Distributive property

## properties of multiplication



## Multiplying by 1

• Any number × 1 = the same number.

**Ex:** 
$$5 \times 1 = 5$$

## 1 Find the product:



## Multiplying by 0

• Any number  $\times 0 = 0$ 

**Ex:** 
$$6 \times 0 = 0$$

# 1 Find the product:

$$0 \times 0 = ....$$

- Apply the multiplying by 1 property to solve problems.
- Apply the multiplying by 0 property to solve problems.

## properties of multiplication



## Multiplying by 10 and its multiples

• When we multiply by 10s, we multiply the numbers then add zeroes.

**Ex:** 50 × 100 = 5,000

# 1 Find the product:

$$3 \times 5$$
 tens = .....

30 hundreds 
$$\times$$
 6 = ......

#### **Main objectives:**

• Apply multiplying by 10s to solve problems.

# **1** Find the product:

#### Exercises: Multiplication

# Lesson 3

# **Estimate the product**



## Estimation

• Estimation is giving a closer answer not the exact answer.

**Estimation**: 50

**Actual product: 45** 

#### 1

## **Find the product:**

,		
Estimation	4 × 9	Actual product
	4 ^ 9	
Estimation	0 × 2 . 0017	Actual product
	8 × 3	
Estimation	9 × 12	Actual product
	9.^ 12	
Estimation	17 × 8	Actual product
	1/ ^ 8	
Estimation	15 × 0	Actual product
	15 × 9	
Estimation	0 × 7	Actual product
	9 × 7	
Estimation	0 ** 45	Actual product
	8 × 16	

#### **Main objectives:**

• Estimate the product.



## division equation

• Divide is distributing some things into equal parts.







#### Each rappit get 4 carrots.

# **1** Find the quotient:

- Write division equation
- Solve division problems.

## Exercises: Division



## Relation between multiplication and division

• Division is the inverse operation of multiplication.

#### **Multiplication equation**

$$3 \times 4 = 12$$

factor factor product

### **Division equation**

$$12 \div 3 = 4$$

dividend divisor quotient



#### Fact family

 Fact family is a set of related multiplication and division equations using the same numbers.

Fact family	for 3, 5, 15
3 × 4 = 12	12 ÷ 4 = 3
4 × 3 = 12	12 ÷ 3 = 4

# **1** Write the fact family for each set of numbers:

- Identify the relation between multiplication and division.
- Identify fact family.

# **2** Find the missing number:

# **3** Find the missing number:

..... 
$$\times$$
 4 = 12

$$..... \times 6 = 42$$

..... 
$$\times$$
 8 = 64

$$4 \div 4 = \dots$$

## Lesson 6

# Multistep problems



## Multistep problems

• Multistep problem is a problem that involves more than one operation.

#### **Example:**

Sara bought 3 packs of crayons. Each pack contains 6 crayons. If she gave her friends 10 crayons of them.

How many crayons are left?

Solve:  $(3 \times 6) - 10 = 18 - 10 = 8$  crayon

# 1 Answer the following:

a)	Farida's father gave her 20 pounds. She bought a snack for 5 pounds and a biscuit for 2 pounds. How much money is left with her?
b)	Ali saves 5 pounds every day for 7 days. Then his mother gave him 40 pounds. <b>How much all money he has?</b>
c)	Elias bought 3 packets of biscuit each pack contains 4 pieces. He needs to distribute them equally between 2 friends. How many pieces each one get?
d)	Moustafa and Logy went to the supermarket. Mousatafa bought 3 pencils with 2 pound for each .Logy bought 4 pencils with 5 pounds for each. How much money that they paid together?

## Chapter 1 Assessment

## 1 Choose:

a) Which of the following represent associative property?

 $8 \times 4 = 4 \times 8$ 

$$(6 \times 1) \times 7 = 6 \times (1 \times 7)$$

8 × 8

b) Which of the following represent commutative property?

 $11 \times 3 = 3 \times 11$ 

$$3 \times 1 = 3$$

 $7 \times 7$ 

**c)** Which of the following represent  $3 \times 4$ ?

 $3 \times 3 \times 3 \times 3$ 

$$4 + 4 + 4 + 4 + 4$$

3 + 3 + 3 + 3

**d)**  $6 \times 14 = 6 \times (\dots + 4)$ 

8

12

- **e)** The following equation  $5 \times 3 = 3 \times 5$  is representing ...... Property. commutative associative distributive
- f) The following equation  $3 \times (4 \times 6) = (3 \times 4) \times 6$  is representing ........... property commutative associative distributive

## 2 Complete:

a) The following equation  $8 \times 4 = 4 \times 8$  is representing ...... Property.

**b)** 6 × 2 × 4 = .....

c) The product of 3 times 5 is ......

**d)**  $8 \times 27 = 8 \times (20 + ....)$ 

- **e)** 3 × ..... = 30
- **f)** The quotient of 27 divided by 3 is ......

**g)** 42 ÷ ..... = 7

# 3 Answer the following:











Hana bought 3 kilograms of orang, the price of each kilogram is 5 pounds, Kenzy bought 2 kilograms of mango the price of each kilogram is 10 pounds. **How much money did they pay all together?** 



# **Chapter 2**

Lesson 2 Unit fraction

Lesson 3 Properties of fractions

Lesson 4 Fractions story problems



#### **Fractions**



#### Fraction

• Fraction represents the parts of a whole.

$$\frac{3}{5} \leftarrow \text{Numerator}$$
Denominator

Numerator: the top number that tells the number of equal parts you have (shaded parts).

**Denominator:** the bottom number that tells the number of all equal parts.



## Writing and reading fraction

Model of fraction	Writing fraction	Reading fraction
1	1	whole one
$\frac{1}{2}$	$\frac{1}{2}$	one half
$\frac{1}{3}$	$\frac{1}{3}$	one third
$\frac{1}{4}$	1 4	one fourth
<u>1</u> 5	1 5	one fifth
1/6	1 6	one sixth

- Identify the meaning of fractions.
- How to write and read the fraction.

## **Fractions**

$\frac{1}{7}$	$\frac{1}{7}$	one seventh
1/8	1 8	one eighth
1/9	1 9	one ninth
1 10	10	one tenth

# **Examples:**

|--|

$$\frac{3}{5}$$
 three fifths

$\frac{7}{10}$	seven tenths
<u>5</u> 8	five eighths

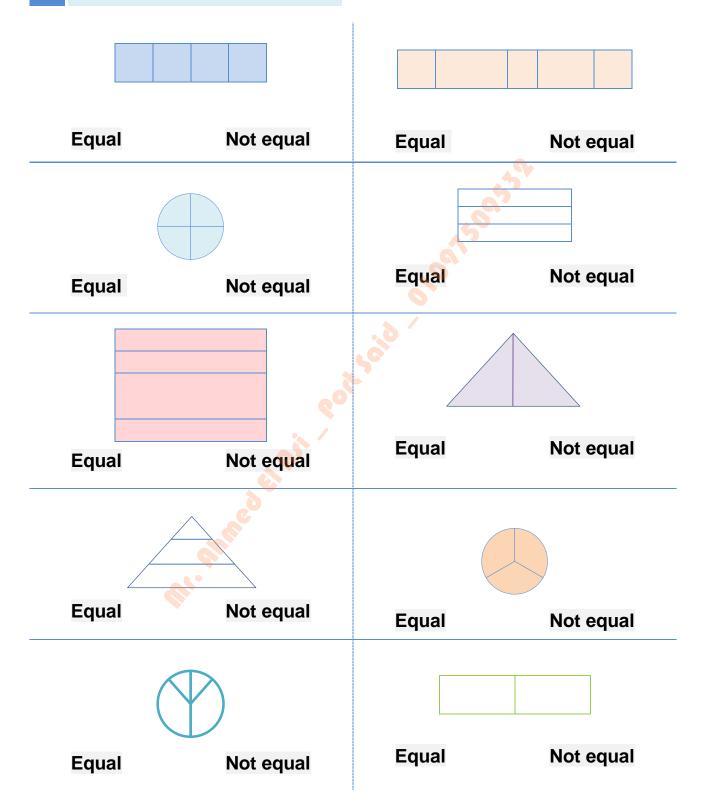
$\frac{5}{7}$ five sevenths
-----------------------------

$\frac{4}{9}$	four ninths
---------------	-------------

$\frac{1}{4}$	one fourth ( quarter )

six sixths

# 1 Circle equal or not equal:



# 2 How many equal parts?











# 3 Write the fraction of each colored part:

<del></del>	<del></del>	
	ologi	
<u></u>		<u></u>
Ot.	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>

# 4 Color to represent the fraction:







$$\frac{1}{4}$$

$$\frac{1}{2}$$

$$\frac{2}{7}$$







$$\frac{3}{10}$$

$$\frac{3}{4}$$

$$\frac{1}{3}$$



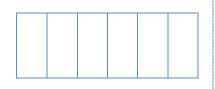


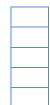


$$\frac{2}{3}$$

$$\frac{5}{6}$$

$$\frac{3}{3}$$





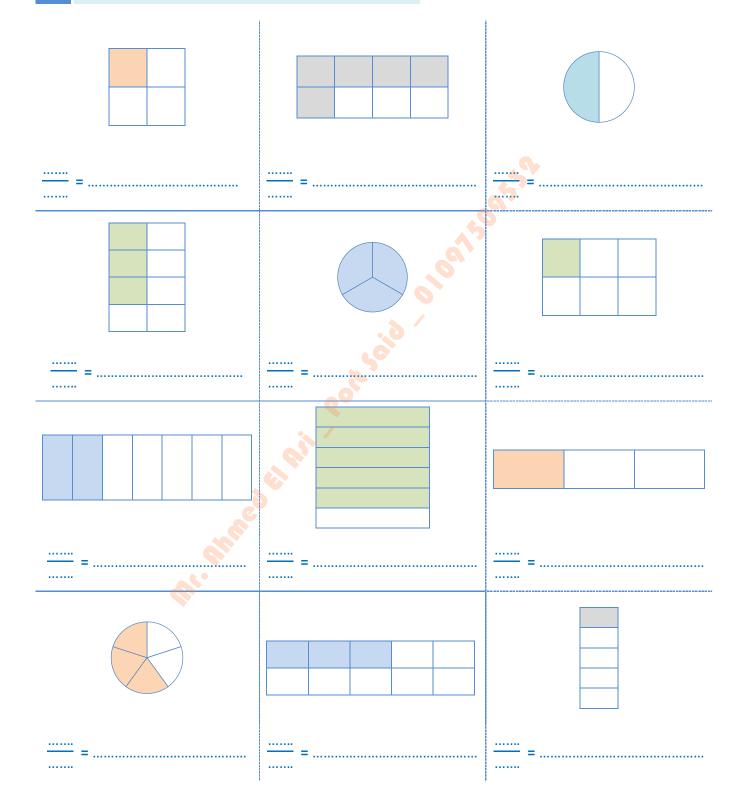


 $\frac{1}{6}$ 

 $\frac{3}{5}$ 

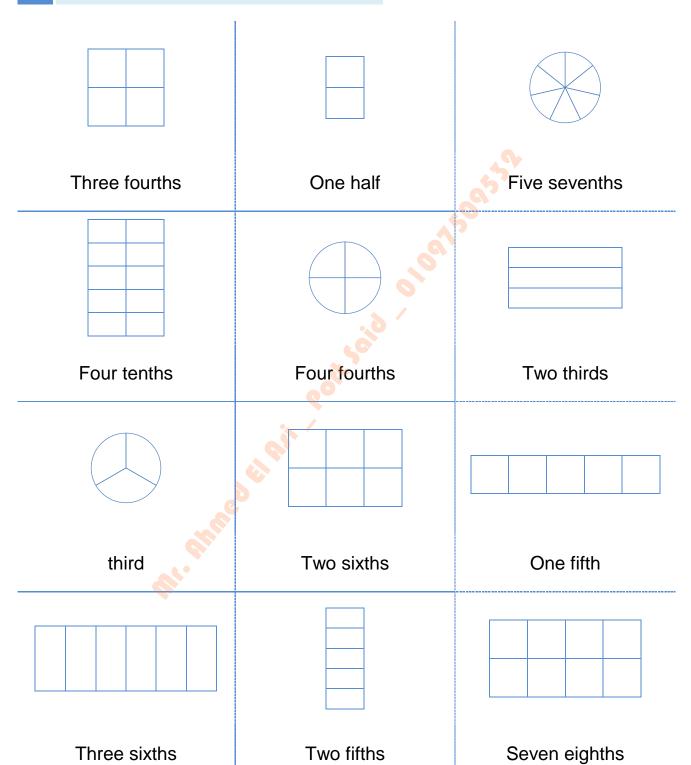
 $\frac{5}{8}$ 

# *5* Write the name of each fraction:



Exercises: Fractions

# 4 Color to represent the fraction:



# 6 Complete:

Fraction	Writing fraction	Name of fraction
Numerator is 1, Denominator is 3	<u></u>	
Numerator is 1, Denominator is 2	<u></u>	
Numerator is 2, Denominator is 5	<u></u>	7.00°
Numerator is 3, Denominator is 4	<u></u>	
Numerator is 2, Denominator is 3	···/	
Numerator is 1, Denominator is 4	<u></u>	
Numerator is 5, Denominator is 7	<u></u>	
Numerator is 3, Denominator is 3	<u></u>	
Numerator is 3, Denominator is 8	<u></u>	
Numerator is 1, Denominator is 6	<u></u>	
Numerator is 2, Denominator is 7	<u></u>	
Numerator is 4, Denominator is 9	<u></u>	

## Lesson 2







## Unit fraction

• Unit fraction is a fraction with a numerator of 1.



Ex: 
$$\frac{1}{3}$$
,  $\frac{1}{5}$ ,  $\frac{1}{2}$ ,  $\frac{1}{7}$ 



## Unit fraction of a set

- Its represent one of equal parts of a set.
- Ex: fraction of the red apples.









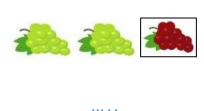
Fraction of the red apples is

## Write the fraction:

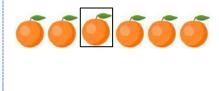












#### Main objectives:

Identify the unit fraction.



## Unit fraction of a number

To find a unit fraction of a number, we can divide the number by the denominator.

**EX:** Find  $\frac{1}{3}$  of 6







$$\frac{1}{3}$$
 of 6 = 2

**EX:** Find  $\frac{1}{4}$  of 12









$$\frac{1}{4}$$
 of  $12 = 3$ 

## Use the counters to find the result:

 $\frac{1}{3}$  of 12 = ......







$$\frac{1}{5}$$
 of 10 = ......





$$\frac{1}{2}$$
 of 8 = ......



$$\frac{1}{2}$$
 of 15 = ......





$$\frac{1}{4}$$
 of 12 = ......





#### Main objectives:

Find a unit fraction of a number.

## **2** Find the result:

$$\frac{1}{3}$$
 of 21 = ......

$$\frac{1}{5}$$
 of 50 = .....

$$\frac{1}{7}$$
 of 35 = ......

$$\frac{1}{3}$$
 of 27 = ......

$$\frac{1}{2}$$
 of 18 = .....

$$\frac{1}{6}$$
 of 12 = ......

$$\frac{1}{2}$$
 of 10 = .....

$$\frac{1}{8}$$
 of 16 = .....

$$\frac{1}{7}$$
 of 14 = ......

$$\frac{1}{3}$$
 of 18 = .....

$$\frac{1}{4}$$
 of 8 = .....

$$\frac{1}{4}$$
 of 36 = ......

$$\frac{1}{8}$$
 of 24 = ......

$$\frac{1}{5}$$
 of 15 = .....

$$\frac{1}{7}$$
 of 7 = ......

$$\frac{1}{9}$$
 of 45 = ......

$$\frac{1}{4}$$
 of 20 = ......

$$\frac{1}{6}$$
 of 36 = ......

$$\frac{1}{5}$$
 of 30 = ......

$$\frac{1}{2}$$
 of 6 = ......

# 3 Compare by using < , > $\stackrel{\frown}{N}$

$$\frac{1}{6}$$
 of 18

$$\frac{1}{4}$$
 of 24

$$\frac{1}{7}$$
 of 28

$$\frac{1}{3}$$
 of 9

$$\frac{1}{4}$$
 of 12

$$\frac{1}{2}$$
 of 8

$$\frac{1}{8}$$
 of 56

$$\frac{1}{6}$$
 of 42

$$\frac{1}{8}$$
 of 8

$$\frac{1}{3}$$
 of 15

$$\frac{1}{4}$$
 of 8

$$\frac{1}{4}$$

$$\frac{1}{4}$$
 of 20

$$\frac{1}{4}$$
 of 36

$$\frac{1}{3}$$
 of 27

$$\frac{1}{6}$$
 of 30

$$\frac{1}{2}$$
 of 12

$$\frac{1}{6}$$
 of 60

$$\frac{1}{5}$$
 of 25

$$\frac{1}{9}$$
 of 9

$$\frac{1}{5}$$
 of 40

#### **Main objectives:**

Find unit fraction of a number.

## **Unit fraction**



## Unit fraction of a measurement units

#### 1 day = 24 hours



$$\frac{1}{4} \text{ of } 24 = 6$$

$$\frac{1}{2} \text{ of } 24 = 12$$

$$\frac{1}{2} \text{ of } 24 = 12$$

$$\frac{1}{2} \text{ of } 24 = 12$$

#### 1 hour = 60 minutes









$$\frac{1}{4}$$
 hr =15  $\frac{1}{2}$  hr =30  $\frac{3}{4}$  hr =45 1 hr =60

$$\frac{1}{4}$$
 of  $60 = 15$ 

$$\frac{1}{2}$$
 of  $60 = 30$ 

half of hour 
$$= 30$$

## Complete:

a) 
$$\frac{1}{2}$$
 of a day = ..... hours

b) Fourth of a day is ...... hours

c) 
$$\frac{1}{3}$$
 of a day = ..... hours

**d)** 
$$\frac{1}{6}$$
 of a day = ..... hours

**e)** 
$$\frac{1}{4}$$
 of a day = ..... hours

**h)** 
$$\frac{1}{4}$$
 of an hour = ..... minutes

# **Properties of fraction**



## Write one whole as a fraction

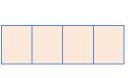
• If the numerator equals the denominator the result is equal one whole.



 $\frac{1}{3}$ 



 $\frac{3}{3} = 1$ 



 $\frac{4}{4} = 1$ 

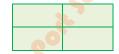


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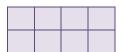
## Join:











 $\frac{3}{3}$ 

4

<u>5</u>

8

 $\frac{2}{2}$ 

# 2 Complete:

$$1 = \frac{17}{1}$$

$$1 = \frac{15}{}$$

$$1 = \frac{10}{10}$$

$$1 = \frac{6}{1} = \frac{4}{1} = \frac{6}{1} = \frac{6}{1} = \frac{6}{1} = \frac{11}{1} =$$

$$1 = \frac{\dots}{9} = \frac{2}{12} = \frac{18}{12} = \frac{25}{12} = \frac{18}{12}$$

• Identify how to write one whole as a fraction.



#### Write whole number as a fraction

• We can write any whole number as a fraction with denominator of 1.

EX: 
$$3 = \frac{3}{1}$$
 ,  $5 = \frac{5}{1}$  ,  $8 = \frac{8}{1}$  ,  $12 = \frac{12}{1}$ 

$$5 = \frac{5}{1}$$

$$8 = \frac{8}{1}$$

$$12 = \frac{12}{1}$$

# Complete:

... ... = 
$$\frac{12}{1}$$

... 
$$=\frac{5}{1}$$

$$10 = \frac{10}{}$$

$$14 = \frac{14}{}$$

$$17 = \frac{17}{}$$

$$18 = \frac{1}{1}$$

... ... = 
$$\frac{11}{1}$$

## A fraction with a numerator of zero

If the numerator of the fraction is 0, the fraction equals 0.

EX: 
$$\frac{0}{6} = 0$$
 ,  $\frac{0}{1} = 0$  ,  $\frac{0}{9} = 0$  ,  $\frac{0}{15} = 0$ 

$$\frac{0}{1}=0$$

$$\frac{0}{9} = 0$$

$$\frac{0}{15} = 0$$

## Complete:

$$\frac{0}{4} = \dots$$

$$\frac{0}{6} = \dots$$

$$\frac{15}{15} = 0$$

$$\frac{0}{8} = \dots$$

$$\frac{}{9} = 0$$

$$\frac{0}{1} = \dots$$

$$\frac{0}{12} = \dots$$

$$\frac{16}{16} = 0$$

$$\frac{0}{3} = \dots$$

$$\frac{1}{7} = 0$$

$$\frac{0}{10} = \dots$$

$$\frac{13}{13} = 0$$

#### Main objectives:

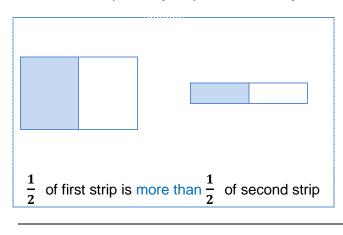
Use properties of fractions to solve problems.

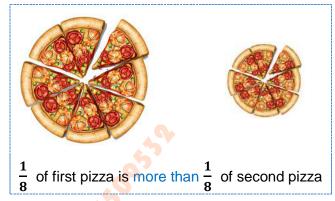
## **Properties of fractions**



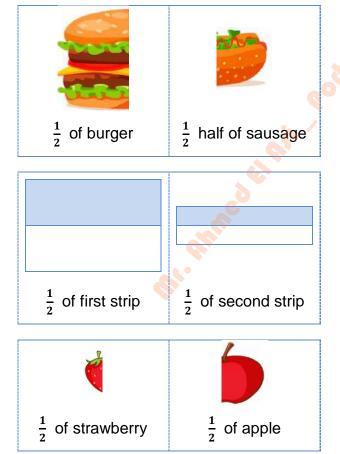
## Same fractions of different size wholes

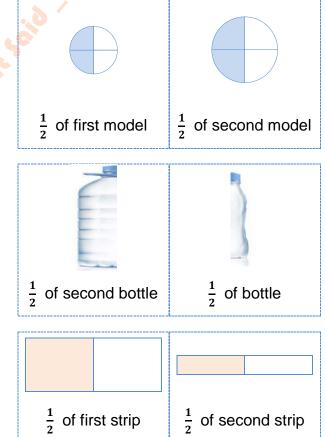
The quantity represented by a fraction depends on the size of the whole.





## Circle Which is more





## **Fractions story problems**



#### Fractions story problems



Yara had a bar of candy. She divided it into 5 equal parts, and ate One of them. What fraction of the Candy did she eat?

## Solve:



The fraction of Candy she ate =  $\frac{1}{5}$ 

# 1 Answer the following:

a) Omar has a bar of chocolate. He divides it into 4 parts.

What is the fraction that represents each part?

.....

**b)** Khaled studies for  $\frac{1}{8}$  of a day.

How many hours does he study?

now many nours does no study :

c) Saly needs to cut a piece of paper into equal pieces to share it between her and 4 of her friends.

What is the fraction that represents the share of each one?

d) Samy has 2 red marbles and 5 green marbles.

What is the fraction that represents the red marbles?

## Chapter 2 Assessment

# Choose:

a) Which fraction represents the colored part





**b)** One whole has ...... Sevenths.

6

7

**c)** The fraction that represents colored parts three fourths

three fifths



**d)** 1 = ......

**e)**  $\frac{1}{5}$  of 25 = ......

5

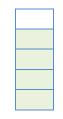
**f)**  $\frac{1}{4}$  of a day = .......

12

18

# Complete:





Nader has 10 flowers. He gave his sister fifth of them.

How many flowers with her sister?



# **Chapter 3**

Lesson 1	Ways to represent fractions
Lesson 2	Comparing proper fractions
Lesson 3	Ordering fractions on number line
Lesson 4	Adding and subtracting fractions with common denominator

Lesson 5 Fractions story problems



## Lesson 1

# Ways to represent fractions



## Ways to represent fraction

Fraction	Number line	Strips	Model
1	0 1	1	
$\frac{1}{2}$	$\begin{array}{c c} & & & \\ \hline 0 & & \frac{1}{2} & & \frac{2}{2} \end{array}$	$\frac{1}{2}$	
1/3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{1}{3}$	
1/4	$\frac{1}{4}$ $\frac{2}{4}$ $\frac{3}{4}$ $\frac{4}{4}$	$\frac{1}{4}$	
<u>1</u> 5	$0   \frac{1}{5}   \frac{2}{5}   \frac{3}{5}   \frac{4}{5}   \frac{5}{5}$	1/5	

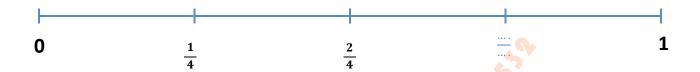
#### **Main objectives:**

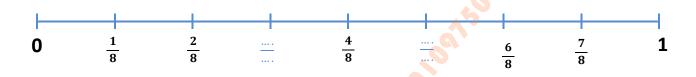
• Identify ways to represent fractions.

# Exercises: Ways to represent fractions

## 1 Complete:



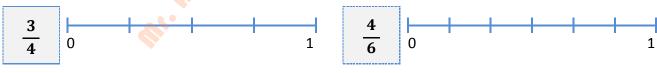








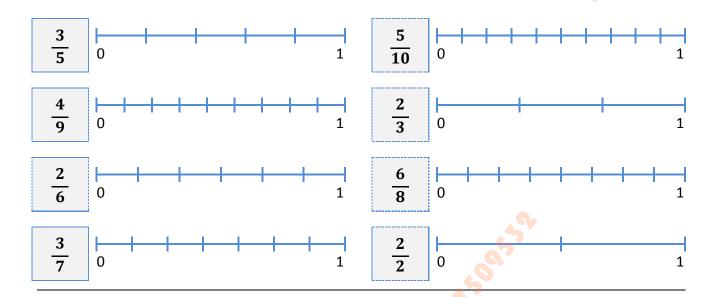
## **2** Locate each fraction on the number line:



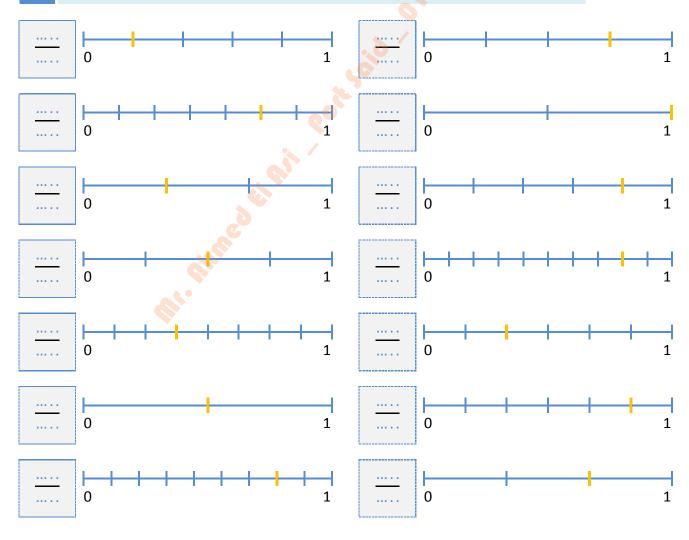




## Exercises: Ways to represent fractions



## *6* Write the fraction which represent on number line:



#### Lesson 2

## **Comparing proper fractions**



## Proper fraction

• A proper fraction is a fraction its numerator is less than its denominator.

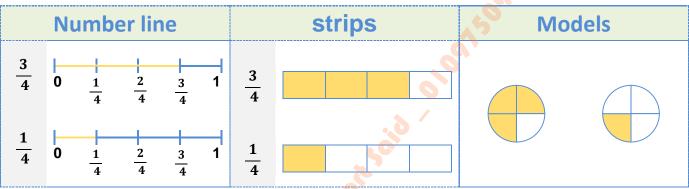
EX: 
$$\frac{1}{3}$$
,  $\frac{1}{2}$ ,  $\frac{2}{5}$ ,  $\frac{3}{8}$ ,  $\frac{1}{7}$ ,  $\frac{6}{9}$ 



## Comparing Proper fraction with same denominators:

• When we comparing fractions with same denominators, the fraction with the greater numerators is the greater.

EX:  $\frac{3}{4} > \frac{1}{4}$ 

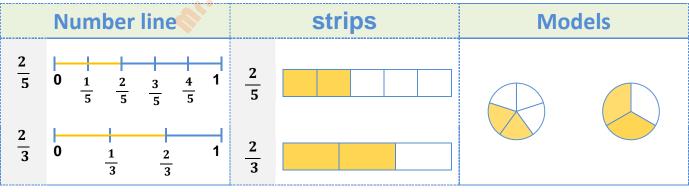


$$\frac{3}{4} > \frac{1}{4}$$
  $\Rightarrow \frac{3}{4}$  is greater because the fractions have the same denominators and 3 > 1

## Ty.

## Comparing Proper fraction with same numerators:

• When we comparing fractions with same numerators, the fraction with the greater denominators is the smaller. EX:  $\frac{2}{5} < \frac{2}{3}$ 



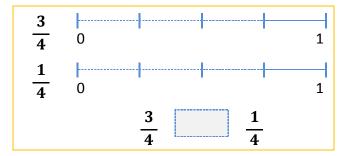
$$\frac{2}{5} < \frac{2}{3}$$
  $\Rightarrow \frac{2}{3}$  is greater because the fractions have the same numerators and 3 < 5

#### Main objectives:

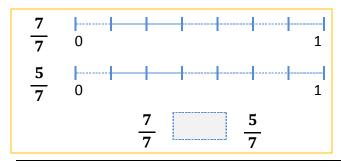
• Identify how to compare proper fractions.

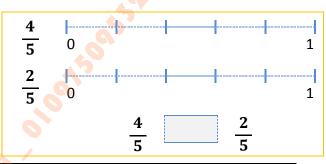
## Exercises: Comparing fractions

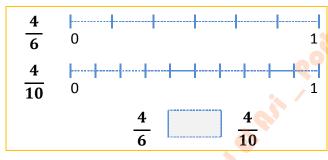
# 1 Use the number line to compare by using >,< , =

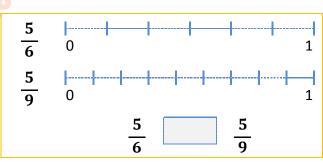


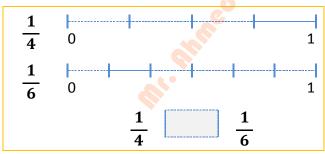
$\frac{1}{6}$	0	<del>   </del>		1
$\frac{2}{6}$	0	<del>                                     </del>		1
		$\frac{1}{6}$	$\frac{2}{6}$	

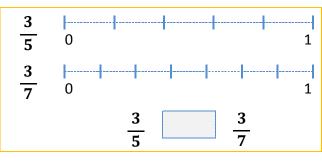


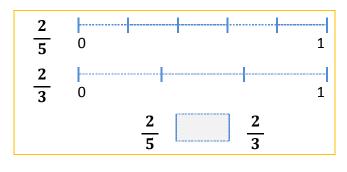


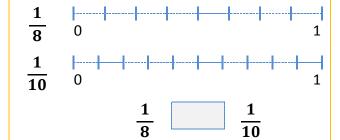








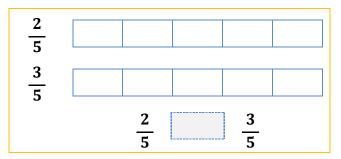




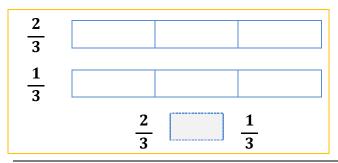
#### **Main objectives:**

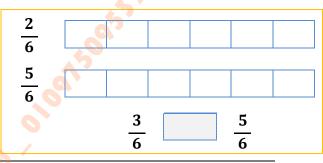
• Use number line to compare fractions.

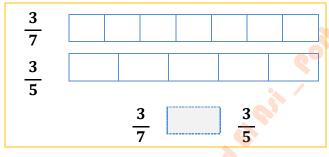
# 2 Use the strips to compare by using >, < ,=

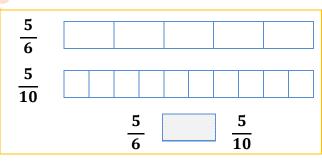


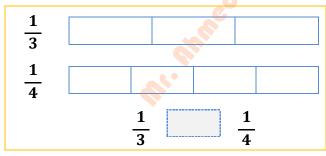
$\frac{4}{7}$	
$\frac{3}{7}$	
,	$\frac{4}{7}$ $\frac{3}{7}$
	7 — 7

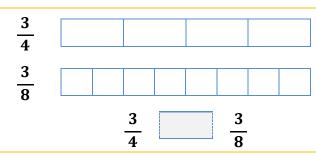


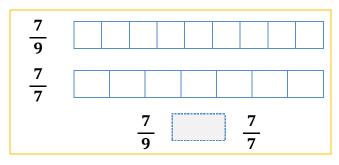












 $\begin{array}{c|c} \frac{1}{3} & & \\ \frac{1}{2} & & \\ & \frac{1}{3} & & \frac{1}{2} \end{array}$ 

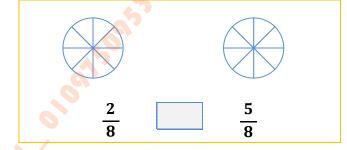
# 3 Use the models to compare by using >, <,=

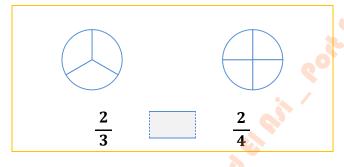


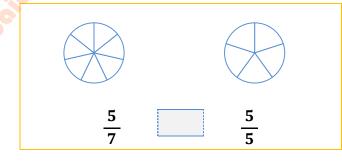
 $\frac{1}{6}$ 

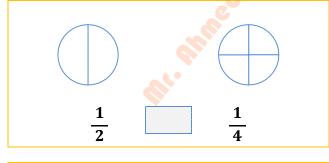


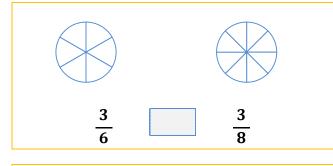


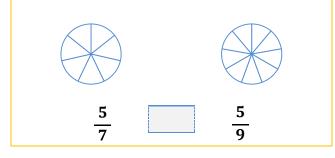


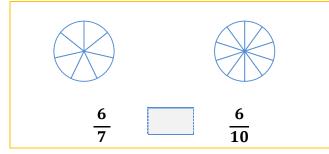












#### **Main objectives:**

• Use models to compare fractions.

## Exercises: Comparing fractions

# 4 compare by using >, <,=

$$\frac{3}{6}$$
  $\frac{1}{6}$ 

$$\frac{4}{5}$$
  $\frac{2}{5}$ 

$$\frac{3}{7}$$
  $\frac{4}{7}$ 

$$\frac{2}{4}$$
  $\frac{3}{4}$ 

$$\frac{2}{3}$$
 1

$$\frac{9}{10} \qquad \qquad \frac{5}{10}$$

$$\frac{5}{7}$$
  $\frac{1}{7}$ 

$$\frac{4}{8}$$
  $\frac{2}{8}$ 

$$\frac{2}{2}$$

$$\frac{1}{2}$$
  $\frac{2}{2}$ 

$$\frac{1}{4}$$
  $\frac{2}{4}$ 

$$\frac{3}{9}$$
  $\frac{6}{9}$ 

$$\frac{2}{6}$$
  $\frac{4}{6}$ 

$$\frac{3}{3}$$
 1

$$\frac{8}{10}$$
  $\frac{6}{10}$ 

$$\frac{4}{8}$$
  $\frac{7}{8}$ 

# 5 compare by using >, <,=

$$\frac{1}{2}$$
  $\frac{1}{4}$ 

$$\begin{array}{c|c}
10 & 10 \\
\hline
15 & 14 \\
\end{array}$$

$$\frac{7}{8}$$
  $\frac{7}{10}$ 

$$\frac{2}{3}$$
 1

$$\frac{3}{4}$$
  $\frac{3}{5}$ 

$$\frac{4}{9}$$
  $\frac{4}{4}$ 

$$1 \qquad \frac{1}{4}$$

$$\frac{9}{11}$$
  $\frac{9}{10}$ 

$$\frac{8}{9}$$
  $\frac{8}{10}$ 

$$\frac{7}{9}$$
  $\frac{7}{11}$ 

$$\frac{2}{5}$$
  $\frac{2}{6}$ 

$$\begin{array}{c|c}
10 & 10 \\
\hline
13 & 11
\end{array}$$

$$\frac{4}{5}$$
  $\frac{4}{8}$ 

$$\frac{5}{9}$$
  $\frac{5}{6}$ 

$$\frac{1}{3}$$
  $\frac{1}{2}$ 

$$\frac{8}{10}$$
  $\frac{8}{9}$ 

$$\begin{array}{c|c} \frac{6}{10} & \boxed{ & \frac{6}{12} \end{array}$$



## Ordering fraction with same denominators

• If the fractions have same denominators, we can order them on the number line.

EX:

Order the following fractions on the number line in ascending order

$$\frac{4}{7}$$
 ,  $\frac{0}{7}$  ,  $\frac{7}{7}$  ,  $\frac{2}{7}$ 

$$\frac{0}{7}$$
  $\frac{2}{7}$   $\frac{4}{7}$ 

The order: 
$$\frac{4}{7}$$
 ,  $\frac{0}{7}$  ,  $\frac{7}{7}$  ,  $\frac{2}{7}$ 



## Ordering fraction with different denominators

• If the fractions have different denominators, we find a common fraction for all denominators, and then order them on the number line.

EX:

Order the following fractions on the number line in ascending order

$$\frac{5}{6}$$
 ,  $\frac{1}{3}$  ,  $\frac{4}{6}$  ,  $\frac{1}{2}$ 

$$\frac{5}{6}$$
 ,  $\frac{2}{6}$  ,  $\frac{4}{6}$  ,  $\frac{3}{6}$ 



The order: 
$$\frac{1}{3}$$
 ,  $\frac{1}{2}$  ,  $\frac{4}{6}$  ,  $\frac{5}{6}$ 

1

Put the following fractions on the number line then order them in ascending order:

$$\frac{1}{5}$$
 ,  $\frac{5}{5}$  ,  $\frac{3}{5}$  ,  $\frac{0}{5}$ 



The order: ...... , ...... , .......

#### **Main objectives:**

• Order fractions on the number line.

## Exercises: Ordering fractions on the number line

$$\frac{3}{4}$$
 ,  $\frac{7}{8}$  ,  $\frac{5}{8}$  ,  $\frac{1}{4}$ 

The order: ...... , ...... , ......

$$\frac{1}{5}$$
 ,  $\frac{6}{10}$  ,  $\frac{2}{5}$  ,  $\frac{4}{5}$ 



The order: ...... , ...... , ......

$$\frac{1}{3}$$
 ,  $\frac{0}{2}$  ,  $\frac{4}{6}$  ,  $\frac{3}{6}$ 



The order: ..... , ..... , .....

$$\frac{1}{5}$$
 ,  $\frac{3}{10}$  ,  $\frac{5}{10}$  ,  $\frac{4}{4}$ 



The order: ...... , ...... , ......

$$\frac{3}{5}$$
 ,  $\frac{6}{6}$  ,  $\frac{1}{10}$  ,  $\frac{1}{2}$ 



The order: ..... , ..... , ..... , ......

$$\frac{1}{3}$$
,  $\frac{2}{3}$ ,  $\frac{5}{6}$ ,  $\frac{1}{2}$ 



The order: ...... , ...... , ......

$$\frac{3}{4}$$
 ,  $\frac{2}{4}$  ,  $\frac{0}{4}$  ,  $\frac{4}{4}$ 



The order: ...... , ...... , ......

#### Lesson 4

# Adding and subtracting fractions with common denominator





## Adding fractions with same denominator

• To add fractions with same denominator, add the numerators and then write the sum over the same denominator.

EX: 
$$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$$

Number line		strips	Models	
0	$\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$ 1			
	$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$	$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$	$\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$	



## Subtracting fractions with same denominator

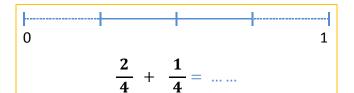
• To subtract fractions with same denominator, subtract the numerators and then write the difference over the same denominator.

EX: 
$$\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$$

Number line	strips	Models	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	××	×	
$\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$	$\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$	$\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$	

• Identify how to add or subtract fractions with common denominator.

# 1 Use the number line to find the sum:

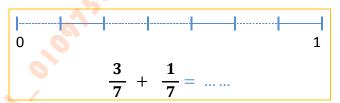


$$\frac{2}{6} + \frac{3}{6} = \dots$$

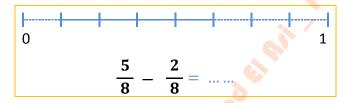
$$0 \qquad \qquad 1$$

$$\frac{5}{9} + \frac{2}{9} = \dots$$

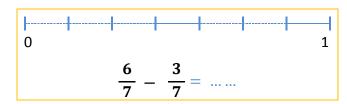
$$\frac{1}{8} + \frac{4}{8} = \dots$$

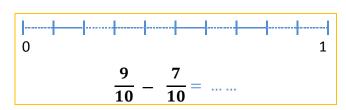


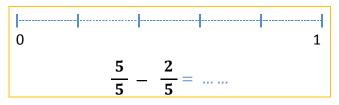
## **2** Use the number line to find the difference:

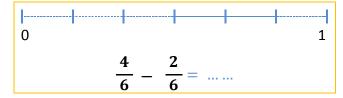








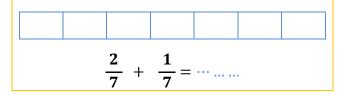




#### **Main objectives:**

• Use the number line to add or subtract fractions.

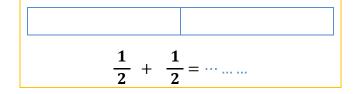
# 3 Use the strips to find the sum:



$$\frac{1}{4} + \frac{2}{4} = \cdots$$

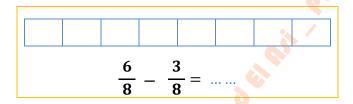
$$\frac{5}{10} + \frac{4}{10} = \cdots$$

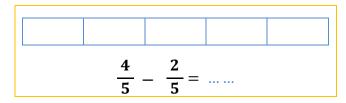
$$\frac{3}{9} + \frac{5}{9} = \cdots$$

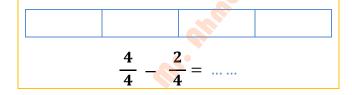


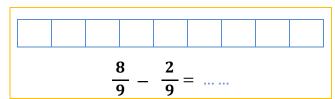
$$\frac{1}{6} + \frac{4}{6} = \cdots$$

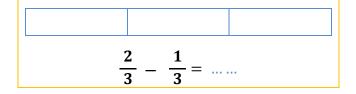
# 4 Use the strips to find the difference:











$$\frac{6}{7} - \frac{1}{7} = \dots$$

# 5 Use the models to find the sum:



$$\frac{3}{6} + \frac{2}{6} = \dots$$



$$\frac{1}{4} + \frac{3}{4} = \dots$$



$$\frac{4}{8} + \frac{2}{8} = \dots$$



$$\frac{1}{5} + \frac{2}{5} = \dots$$



$$\frac{1}{2} + \frac{1}{2} = \dots$$



$$\frac{2}{7} + \frac{4}{7} = \dots$$



$$\frac{5}{9} + \frac{3}{9} = \dots$$

$$\frac{1}{2} + \frac{1}{2} = \dots$$

## 6 Use the models to find the difference:



$$\frac{5}{7} - \frac{1}{7} = \dots$$



$$\frac{7}{10} - \frac{3}{10} = \dots$$



$$\frac{8}{8} - \frac{4}{8} = \dots$$



$$\frac{2}{4} - \frac{1}{4} = \dots$$

$$\frac{4}{5} - \frac{2}{5} = \dots$$

$$\frac{3}{6} - \frac{2}{6} = \dots$$

$$\frac{8}{9} - \frac{5}{9} = \dots$$



$$\frac{3}{3} - \frac{1}{3} = \dots$$

## 7 Find the sum:

$$\frac{2}{4} + \frac{1}{4} = \dots$$

$$\frac{2}{6} + \frac{3}{6} = \dots$$

$$\frac{4}{10} + \frac{4}{10} = \dots$$

$$\frac{1}{3} + \frac{1}{3} = \dots$$

$$\frac{5}{12} + \frac{4}{12} = \dots$$

$$\frac{2}{5} + \frac{1}{5} = \dots$$

$$\frac{1}{5} + \frac{3}{5} = \dots$$

$$\frac{4}{8} + \frac{1}{8} = \dots$$

$$\frac{3}{9} + \frac{5}{9} = \dots$$

$$\frac{4}{7} + \frac{2}{7} = \dots$$

$$\frac{1}{3} + \frac{2}{3} = \dots$$

$$\frac{1}{4} + \frac{1}{4} = \dots$$

$$\frac{1}{2} + \frac{1}{2} = \dots$$

$$\frac{6}{10} + \frac{3}{10} = \dots$$

$$\frac{2}{6} + \frac{2}{6} = \dots$$

$$\frac{3}{9} + \frac{4}{9} = \dots$$

$$\frac{1}{7} + \frac{6}{7} = \dots$$

$$\frac{5}{8} + \frac{2}{8} = \dots$$

## 8 Find the difference:

$$\frac{3}{5} - \frac{1}{5} = \dots$$

$$\frac{8}{9} - \frac{4}{9} = \dots$$

$$\frac{7}{8} - \frac{5}{8} = \dots$$

$$\frac{7}{9} - \frac{4}{9} = \dots$$

$$\frac{5}{6} - \frac{3}{6} = \dots$$

$$\frac{4}{5} - \frac{2}{5} = \dots$$

$$\frac{6}{7} - \frac{4}{7} = \dots$$

$$\frac{6}{8} - \frac{3}{8} = \dots$$

$$\frac{9}{10} - \frac{3}{10} = \dots$$

$$\frac{8}{10} - \frac{5}{10} = \dots$$

$$\frac{2}{4} - \frac{1}{4} = \dots$$

$$\frac{4}{6} - \frac{1}{6} = \dots$$

$$\frac{9}{12} - \frac{4}{12} = \dots$$

$$\frac{2}{3} - \frac{2}{3} = \dots$$

$$\frac{6}{7} - \frac{5}{7} = \dots$$

$$\frac{3}{4} - \frac{2}{4} = \dots$$

$$\frac{5}{7} - \frac{1}{7} = \dots$$

$$\frac{4}{4}-\frac{2}{4}=\dots$$

#### **Main objectives:**

• Add and subtract fractions.

# g compare by using >, <,=

$$\frac{1}{6} + \frac{3}{6}$$

$$\frac{3}{6} + \frac{2}{6}$$

$$\frac{3}{8} + \frac{3}{8}$$

$$\frac{7}{8} - \frac{3}{8}$$

$$\frac{4}{9} + \frac{3}{9}$$

$$\frac{5}{9} + \frac{1}{9}$$

$$\frac{1}{4} + \frac{3}{4}$$

$$\frac{2}{4} + \frac{2}{4}$$

$$\frac{3}{7}$$

$$\frac{5}{7} - \frac{3}{7}$$

$$\frac{3}{10}$$

$$\frac{10}{10} + \frac{6}{10}$$

$$\frac{4}{5} - \frac{1}{5}$$

$$\frac{2}{9} + \frac{1}{9}$$

$$\frac{2}{5} + \frac{2}{5}$$

$$\frac{2}{7} + \frac{2}{7}$$

$$\frac{3}{8} + \frac{5}{8}$$

1

$$\frac{2}{4} + \frac{1}{4}$$

$$\frac{3}{5} - \frac{1}{5}$$

$$\frac{5}{7} - \frac{3}{7}$$

1

$$\frac{7}{12} + \frac{3}{12}$$

$$\frac{9}{12}$$

# 10 Match

$$\frac{5}{7} + \frac{2}{7}$$

$$\frac{8}{9} - \frac{3}{9}$$

$$\frac{2}{4}+\frac{1}{4}$$

$$\frac{3}{9} + \frac{3}{9}$$

$$\frac{3}{4} - \frac{1}{4}$$

$$\frac{3}{9} + \frac{2}{9}$$

1

$$\frac{1}{4} + \frac{1}{4}$$

$$\frac{6}{9}$$

$$\frac{1}{4} + \frac{2}{4}$$



## Fractions story problems



Yara had a bar of candy. She ate  $\frac{2}{5}$  in the morning, and ate  $\frac{1}{5}$  of it in afternoon. What fraction of the candy did she eat?

#### Solve:

The fraction of Candy she ate =  $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$ 

# Answer the following:

a) Salma has a bar of chocolate, she ate  $\frac{2}{7}$  of the bar and her brother ate  $\frac{3}{7}$ of the bar.

What fraction shows what they both did eat?

**b)** Mazen bought a one pizza. He ate  $\frac{3}{9}$  of it. what fraction of the pizza is left?

c) Sara and Ahmed bought a packet of biscuit. Sara ate  $\frac{1}{4}$  of it. And Ahmed ate  $\frac{1}{2}$  of it.

who is eat more biscuit?

d) Ramy ate  $\frac{2}{6}$  of a pizza in first day. In the second day he ate  $\frac{4}{6}$  of it. What day did he eat more?

# 1 Choose:

a)
$$\frac{1}{6}$$
 ..... $\frac{1}{8}$ 

>

b)
$$\frac{2}{4}$$
 < .....

**2 5** 

2

c) 1 ..... 
$$\frac{7}{7}$$

>

=

d) 
$$\frac{1}{5} + \frac{3}{5} = \dots$$

2

e) 
$$\frac{6}{8} - \frac{2}{8}$$
 .....  $\frac{3}{8}$ 

<

=

# 2 Complete:

a) 
$$\frac{3}{9} + \frac{5}{9} = \dots$$

b) 
$$1 - \frac{4}{6} = \dots$$

c) 
$$\frac{6}{14} - \frac{5}{14} = \dots$$

d)
$$\frac{5}{8} - \frac{1}{8} = \frac{3}{8} + \frac{\dots}{8}$$

e) 
$$\frac{5}{8} + \frac{1}{2} = 1$$



# **Chapter 4**

Lesson 1 Equivalent fractions

Lesson 2 Find the missing equivalent fraction





## Equivalent fractions

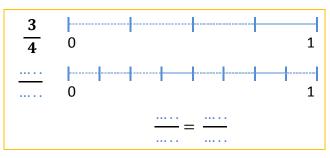
• Equivalent fractions are fractions look different but they have the same value.

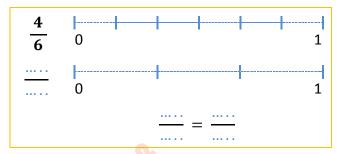
Fraction	Number line	Strips	Model
1/2	$0$ $\frac{1}{2}$ $1$	$\frac{1}{2}$	
<u>2</u> 4	$0   \frac{1}{4}   \frac{2}{4}   \frac{3}{4}   \frac{4}{4}$	$\frac{1}{4}$ $\frac{1}{4}$	
3 6	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
4/8	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

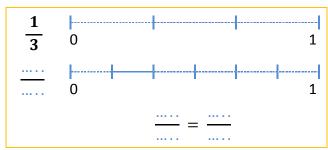
equivalent fractions

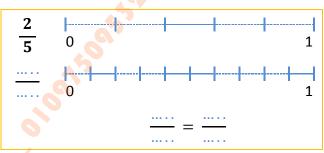
## Exercises: Equivalent fractions

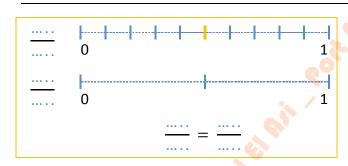
# 1 Use the number line to find the equivalent fraction:

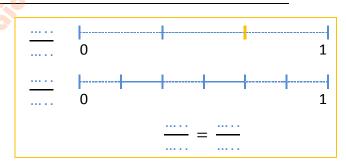


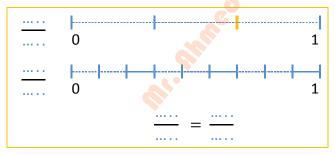


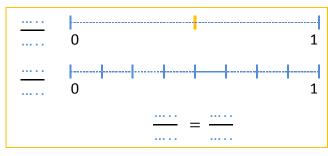


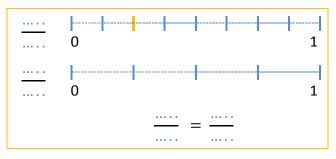


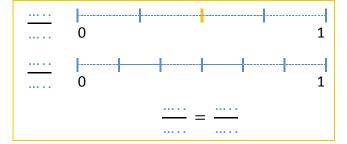








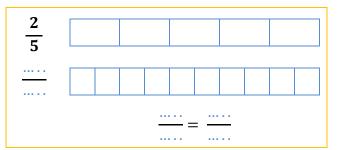




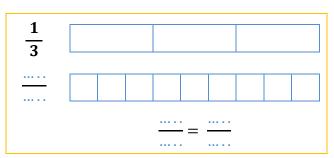
#### **Main objectives:**

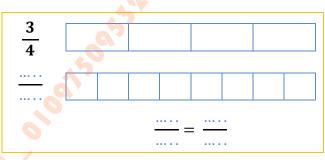
• Find the equivalent fraction by using number line.

# 2 Use the strips to find the equivalent fraction:

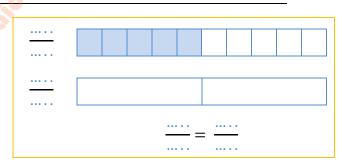


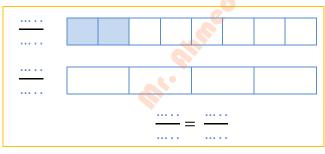
$\frac{1}{2}$			
<u></u>			
	<u>-</u>	- ····	

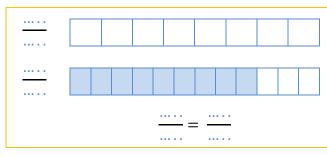


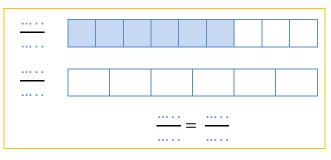












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 ,			
	<del></del> =		
	 	• •	

# 3 Use the models to find the equivalent fraction:





$$\frac{1}{3} = \frac{\dots}{}$$





$$\frac{6}{8} = \frac{....}{...}$$









$$\frac{2}{3} = \frac{\dots}{\dots}$$

























#### **Main objectives:**

• Find the equivalent fraction by using models.

# Find the missing equivalent fraction



## Find equivalent fractions using multiply or divide

• We can multiply or divide both the numerator and the denominator of a fraction by any number except zero to find equivalent fraction.

$$\frac{2}{3} = \frac{6}{9}$$

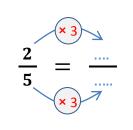
$$\frac{4}{8} = \frac{1}{2}$$

$$\frac{2}{3} = \frac{6}{9}$$

$$\frac{4}{8} = \frac{1}{2}$$

$$\frac{4}{8} = \frac{1}{2}$$

## 1 Complete:



$$\frac{3}{4} = \frac{3}{4}$$

$$\frac{3}{6} = \frac{3}{6}$$

$$\frac{6}{18} = \frac{\dots}{\dots}$$

$$\frac{6}{10} = \frac{6}{10}$$

$$\frac{9}{15} = \frac{3}{15}$$

#### **Main objectives:**

• Find the missing numerator or denominator in equivalent fraction.

# Find the missing equivalent fraction



## Find missing numerator or denominator in equivalent fraction

 To find the missing numerator, determine what is the number that the denominator is multiplied or divided by it, then do the same with numerator.

$$\frac{3}{5} = \frac{?}{15}$$

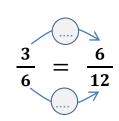
$$\frac{2}{3} = \frac{4}{?}$$

$$\frac{3}{5} = \frac{9}{15}$$

$$\frac{4}{12} = \frac{1}{3}$$

$$\frac{1}{3} = \frac{1}{3}$$

# 1 Complete the suitable operation:



$$\frac{2}{5} = \frac{4}{10}$$

$$\frac{5}{10} = \frac{1}{2}$$

$$\frac{3}{5} = \frac{9}{15}$$

$$\frac{8}{12} = \frac{2}{3}$$

$$\frac{4}{5} = \frac{16}{20}$$

$$\frac{4}{14} = \frac{2}{7}$$

$$\frac{9}{18} = \frac{1}{2}$$

$$\frac{3}{7} = \frac{9}{21}$$

$$\frac{6}{18} = \frac{1}{3}$$

$$\frac{1}{3} = \frac{4}{12}$$

$$\frac{4}{6} = \frac{16}{24}$$

#### **Main objectives:**

• Find the missing numerator or denominator in equivalent fraction.

# **2** Find the missing number:

$$\frac{2}{7} = \frac{14}{14}$$

$$\frac{3}{3} = \frac{6}{8}$$

$$\frac{4}{16} = \frac{8}{16}$$

$$\frac{4}{6} = \frac{3}{3}$$

$$\frac{4}{6} = \frac{12}{6}$$

$$\frac{8}{10} = \frac{3}{3}$$

$$\frac{1}{4} = \frac{20}{20}$$

$$\frac{2}{15} = \frac{2}{3}$$

$$\frac{1}{5} = \frac{10}{10}$$

$$\frac{3}{6} = \frac{\dots}{2}$$

$$\frac{12}{2} = \frac{12}{20}$$

# 3 Write two equivalent fraction:

$$\frac{4}{5} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$$

$$\frac{3}{7} = \frac{...}{...} = \frac{...}{...}$$

$$\frac{3}{6} = \frac{...}{...} = \frac{...}{...}$$

$$\frac{2}{5} = \frac{...}{...} = \frac{...}{...}$$

$$\frac{2}{6} = \frac{...}{...} = \frac{...}{...}$$

## Exercises: Find the missing equivalent fraction

## 4 Complete:

$$\frac{3}{5} = \frac{\dots}{10} = \frac{6}{\dots} = \frac{\dots}{12}$$

$$\frac{1}{4} = \frac{2}{...} = \frac{3}{...} = \frac{...}{16}$$

$$\frac{5}{6} = \frac{10}{...} = \frac{...}{18} = \frac{...}{24}$$

$$\frac{2}{7} = \frac{\dots}{14} = \frac{6}{\dots} = \frac{\dots}{35}$$

$$\frac{2}{3} = \frac{4}{...} = \frac{...}{9} = \frac{8}{...}$$

$$\frac{2}{5} = \frac{6}{...} = \frac{8}{...} = \frac{...}{25}$$

$$\frac{1}{2} = \frac{...}{4} = \frac{5}{8} = \frac{5}{1}$$

$$\frac{3}{6} = \frac{6}{...} = \frac{12}{12} = \frac{12}{...}$$

## 5 Choose the equivalent fraction:

a) 
$$\frac{3}{6} = \dots$$

$$(\frac{3}{12}, \frac{6}{12}, \frac{6}{9}, \frac{6}{18})$$

**b)** 
$$\frac{3}{4} = \dots$$

$$(\frac{3}{12}, \frac{4}{5}, \frac{15}{20}, \frac{2}{3})$$

c) 
$$\frac{4}{9} = \dots$$

$$(\frac{2}{6}, \frac{4}{12}, \frac{2}{8}, \frac{1}{2})$$

**d)** 
$$\frac{8}{10}$$
 = ......

$$(\frac{4}{10}, \frac{4}{5}, \frac{2}{5}, \frac{6}{8})$$

**e)** 
$$\frac{2}{5}$$
 = ......

$$(\frac{2}{10} , \frac{6}{15} , \frac{4}{10} , \frac{4}{5})$$

f) 
$$\frac{4}{12} = \dots$$

$$(\frac{12}{24}, \frac{3}{8}, \frac{8}{16}, \frac{1}{4})$$

**g)** 
$$\frac{6}{18}$$
 = ......

$$(\frac{2}{3}, \frac{1}{3}, \frac{2}{9}, \frac{3}{12})$$

**h)** 
$$\frac{2}{7}$$
 = ......

$$(\frac{6}{21}, \frac{4}{7}, \frac{2}{14}, \frac{1}{4})$$

#### Main objectives:

• Find the missing numerator or denominator in equivalent fraction.

# 1 Choose:

$$a)\frac{2}{3} = \dots$$

$$\frac{4}{8}$$

$$\frac{6}{12}$$

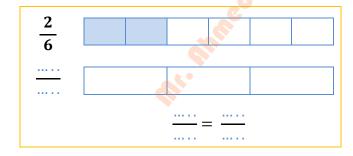
$$\frac{4}{6}$$

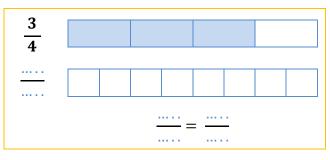
$$b)\frac{5}{6} = \frac{12}{12}$$

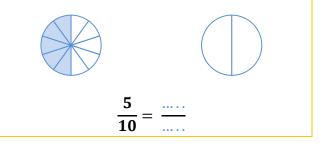
c) 
$$1 = \frac{8}{8}$$

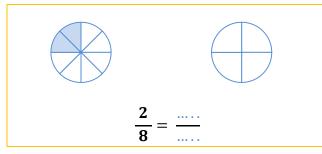
d) 
$$\frac{1}{2} = \frac{2}{4} = \frac{3}{...}$$

# Color and complete the equivalent fraction:











# **Chapter 5**

Lesson 1	Perimeter	and	area

Lesson 2 Find the missing length or width of rectangle or square

Lesson 3 Perimeter and area of complex figures



### **Perimeter and area**

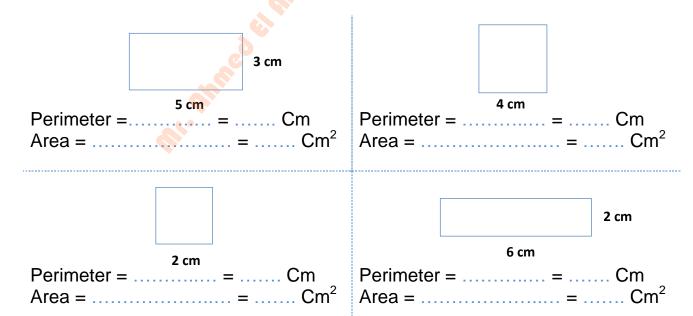


#### Perimeter and Area

Perimeter	meter Area	
<ul> <li>is the length of the line the outlines that shape.</li> </ul>	nat	<ul> <li>The number of square units that needed to cover this shape.</li> </ul>
·	2 cm	4 cm
Perimeter = 4 + 2 + 4 + 2 = 12	2 cm	Area = 4 × 2 = 8 cm <sup>2</sup>

### 1

### Complete:

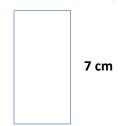


#### Exercises: Perimeter and area



6 cm

Perimeter = 
$$=$$
 Cm  
Area =  $=$  Cm<sup>2</sup>



Perimeter = 
$$=$$
 Cm  
Area =  $=$  Cm<sup>2</sup>



Perimeter = = Cm Area = = Cm<sup>2</sup>



### 2 Complete:

- a) The Area of the square whose side length is 6 cm = ..... cm
- b) The Area of the rectangle whose length is 8 cm and width is 2 cm = ...... cm<sup>2</sup>
- c) The perimeter of the rectangle whose length is 8 cm and width is 2 cm = ..... cm
- d) The perimeter of the square whose side length is 4 cm = ..... cm
- e) The area of the square whose side length is  $5 \text{ cm} = \dots \text{ cm}^2$
- f) The perimeter of the square whose side length is 7 cm = ..... cm

### Lesson 2

# Find the missing length or width of rectangle or square



## Perimeter and Area of rectangle and square

Rectangle	Square
<ul> <li>Each two opposite sides are equal in length.</li> </ul>	<ul> <li>All sides are equal in length.</li> </ul>
Length (L)  (w)  Hypi  Midth  Length (L)	Side (S) Side (S) Side (S)

Perimeter of rectangle	P = L + W + L + W P = 2 L + 2 W P = 2 × (L+W)	وزع
Perimeter of square	P = S + S + S + S P = 4 × S	4 S
Area of rectangle	A = L × W	A L W
Area of square	A = S × S	SSS

# Complete:

5 cm

W = ..... cm

5 cm

$$A = ..... cm^2$$

 $A = 27 \text{ cm}^2$ 3 cm

?

8 cm

 $A = 16 cm^2$ 

$$A = 15 \text{ cm}^2$$
 3 cm

?

P = 20 cm6 cm

L = ..... cm

?

6 cm

7 cm ?

3 cm

$$A = ..... cm^2$$

?

6 cm

?

2 cm

**7** cm

? 3 cm 6 cm

P = ..... cm

P = 24 cm 8 cm

L = ..... cm

?

# Exercises: Find the missing length or width of rectangle or square



$$A = ..... cm^2$$

$$A = 36 \text{ cm}^2$$

$$A = ..... cm^2$$

$$A = 9 \text{ cm}^2$$

P = 28 cm

$$A = ..... cm^2$$

# Exercises: Find the missing length or width of rectangle or square





$$A = ..... cm^2$$

8 cm

$$A = ..... cm^2$$

6 cm

 $A = \dots cm^2$ 

8 cm

W = ..... cm

## 2 Choose:

a) The perimeter of the square whose side length is 5 cm = ..... cm

10

15

20

25

**b)** The perimeter of the rectangle whose length is 7 cm and width is 3 cm = ...... cm

10

20

30

40

c) The side length of the square whose perimeter is 12 cm = ...... cm

3

4

5

6

d) The width of the rectangle whose length is 5 cm and perimeter is 18 cm = ..... cm

2

3

4

5

e) The side length of the square whose Area is  $9 \text{ cm}^2 = \dots \text{ cm}$ 

1

2

3

4

## 3 Complete:

- a) The side length of the square whose perimeter is 20 cm = ...... cm
- **b)** The length of the rectangle whose width is 4 cm and perimeter is 18 cm = ...... cm
- c) The perimeter of the square whose side length is 6 cm = ..... cm
- **d)** The perimeter of the rectangle whose length is 8 cm and width is 2 cm = ...... cm
- e) The area of the square whose side length is  $5 \text{ cm} = \dots \text{ cm}^2$



#### Perimeter and Area

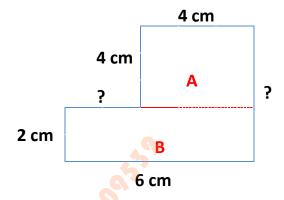
To find the area of complex figures we separate the figure into regular shapes.

#### **Example:**

Find the area and the perimeter of the figure?

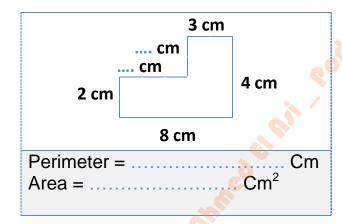
#### Solve:

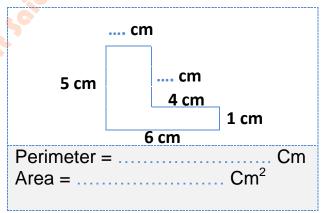
Area of the figure = Area A + Area B  
= 
$$(4 \times 4) + (2 \times 6)$$
  
=  $16 + 12 = 28 \text{ cm}^2$ 

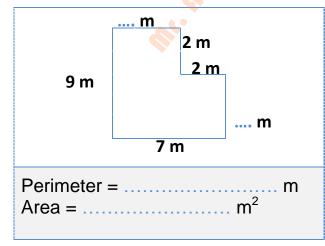


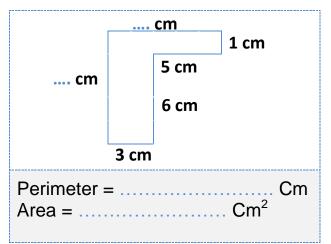
Perimeter of the figure = 4 + 6 + 6 + 2 + 2 + 4 = 24 cm

### 1 Complete:









# 1 Choose:

- a) The perimeter of the rectangle whose length is 6 cm and width is 2 cm = ..... cm

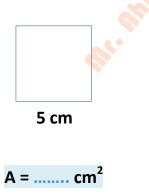
  12 16 20 24
- a) The width of the rectangle whose length is 4 cm and perimeter is 18 cm
   cm
   3
   4
   5
- a) The side length of the square whose Area is  $16 \text{ cm}^2 = \dots \text{ cm}$ 1

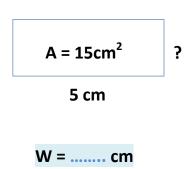
  2

  3

  4

# 2 Complete:







# **Chapter 6**

Lesson 1	Place	value	and	value
----------	-------	-------	-----	-------

Lesson 2 Forms of the number

Lesson 3 Comparing and ordering numbers

Lesson 4 Graphs

Lesson 5 Measuring length

Lesson 6 Elapsed time

Lesson 7 Main four operations



### Place value and value



#### Place value and value

The value of each digit in any number depends on its place in this number.

	352,674						
	3	3 5 2 7 6 4					
Place value	Hundred thousands	Ten thousands	thousands	hundreds	tens	ones	
Value	300,000	50,000	2,000	700	60	4	



#### Forms of the number

• **Standard form:** 352,674

• Expanded form: 300,000 + 50,000 + 2,000 + 600 + 70 + 4

Word form: three hundred fifty two thousand, six hundred seventy four



#### Notes:

Tens replaced with 0

Hundreds replaced with 00

Thousands replaced with 000

Ex: 3 tens = 30

Ex: 5 hundreds = 500

Ex: 2 thousands = 2,000



### Numbers

	Ones		From 11 to 19		Tens
1	one	11	eleven	10	ten
2	two	12	twelve	20	twenty
3	three	13	thirteen	30	thirty
4	four	14	fourteen	40	forty
5	five	15	fifteen	50	fifty
6	six	16	sixteen	60	sixty
7	seven	17	seventeen	70	seventy
8	eight	18	eighteen	80	eighty
9	nine	19	nineteen	90	ninety

#### **Main objectives:**

• Reviews on place value and value.

### Exercises: Place value and value

# 1 Complete:

Number	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
25,416						
106,452						
3,891						
7,245				55		
111,372				500		
973						
36,970			0			
819,553			.:0			

## 2 Underline the digit which represent the given place value:

ten thousands	3 <u>4</u> 1,125
Hundreds	862,109
Tens	54,137
Thousands	6,378
Ones	14,452
Ten thousands	23,500
Hundreds	4,506
Thousands	35,197
Tens	2,983

Ones	7,451
Ten thousands	62,519
Tens	25,804
Hundred thousands	126,107
Ones	3,785
Thousands	12,563
Hundreds	1,109
Ten thousands	421,349
Hundred thousands	598,043

# 3 Complete:

Number	Place value	Value
5 <u>4</u> 1,362		
76,2 <u>5</u> 3		
12 <u>3</u> ,508		
<u>3</u> 3,569		
56,80 <u>2</u>		
917, <u>0</u> 04		
23,5 <u>5</u> 8		
<u>1</u> 10,609		
45,27 <u>1</u>		
<u>5</u> ,893		. /
78, <u>8</u> 83		
3 <u>9</u> 6		
4, <u>3</u> 60	alla	
5 <u>1</u> 1,870		
4 <u>8</u> ,206		
<u>1</u> 56,394		
78, <u>0</u> 27		
<u>4</u> 36,879		
2 <u>1</u> ,907		

Number	Place value	Value
<u>2</u> 30,035		
<u>4</u> 0,630		
5 <u>8</u> ,782	<b>.</b> ••	
15 <u>7</u> ,691		
3 <u>9</u> 9,126		
4 <u>5</u> 2		
376,245		
12 <u>2</u> ,705		
46,0 <u>0</u> 5		
<u>8</u> 1,359		
40 <u>2</u> ,103		
<u>5</u> 13,827		
920,1 <u>1</u> 6		
<u>4</u> ,789		
<u>2</u> 5,235		
1,30 <u>0</u>		
70, <u>1</u> 82		
<u>3</u> 4,894		
2, <u>4</u> 50		

# Exercises: Place value and value

# 4 Choose:

a)	The value of	the digit 6 in the num	ber 3,670 is	
	6	60	600	6,000
b)	The place va	lue of the digit 7 in th	e number 457,201 i	s
	Ones	Tens	Hundreds	Thousands
c)	The value of	the digit 8 in the num	ber 38,129 is	<b></b>
	80	800	8,000	80,000
d)	The digit in th	ne place ten thousand	ds in the number 12	6,539 is
	2	3	5	6
e)	The place va	lue of the digit 4 in th	e number 465,983 i	S
H	lundreds	Thousands	Ten thousands	Hundred thousands
f)	The digit in th	ne place thousands ir	the number 75,609	) is
	0	5	7	6
g)	The value of	the digit 2 in the num	ber 29,140 is	
	200	2,000	20,000	200,000
h)	The place va	lue of the digit 8 in th	e number 580,231 i	S
H	lundreds	Thousands	Ten thousands	Hundred thousands
i)	The digit in th	ne place hundred tho	usands in the numb	er 971,320 is
	3	7	9	1
j)	The value of	the digit 3 in the num	ber 319,207 is	
	300	3,000	30,000	300,000
k)	The place va	lue of the digit 1 in th	e number 12,089 is	
·  -	lundreds	Thousands	Ten thousands	Hundred thousands

# 5 Complete:

3 hundreds = .....

40 tens = .....

7 thousands = .....

20 hundreds = .....

900 thousands = .....

500 hundreds = .....

4 ten thousands = .....

60,000 tens = .....

100 thousands = .....

3 hundred thousands = ......

8,000 tens = ....

30 thousands =

2 tens = .....

10 hundreds = .....

70 ten thousands = .....

6 hundreds = ..... tens

40 tens = ..... hundreds

3 thousands = ..... tens

50 hundreds = ..... thousands

40 hundreds = ..... tens

500 tens = ..... hundreds

900 hundreds = ..... tens

6,000 tens = ..... thousands

70 hundreds = ..... tens

20,000 = ..... thousands

700 = ..... tens

400 hundreds = ..... thousands

80 thousands = ..... hundreds

30 = ..... tens

1,000 = ..... hundreds

# Forms of the number



63,741	
5,305	
17,890	
257,829	
9,611	
300,500	
40,593	
523,718	
6,720	
70,000	
2,008	
70,799	
543,702	
730,026	
39,410	
10,521	
88,332	
15,909	
365,982	
1,112	

## **2** Write in standard form:

300,000 + 20,000 + 4,000 + 200 + 10 + 5	
50,000 + 6,000 + 800 + 30 + 2	
80,000 + 2,000 + 500 + 90 + 7	
3,000 + 200 + 10 + 5	

320,000 + 4,000 + 200 + 10 + 5	\$ /	
3,000 + 200 + 15		
300,000 + 24,000 + 200 + 10 + 5		
50,000 + 6,000 + 832		

90,000 + 3,000 + 10 + 2	
80,000 + 5	
600,000 + 60,000 + 2, <mark>00</mark> 0 + 800 + 5	
40,000 + 9,000 + 700 + 30 + 6	
300,000 + 400 + 20 + 8	
900,000 + 7,000 + 800 + 20 + 4	
600,000 + 10,000 + 5,000 + 30 + 8	
5,000 + 100 + 10 + 400,000 + 3	
60,000 + 7,000 + 900 + 50	
20 + 60,000 + 8 + 500 + 300,000	

# 3 Write in word form:

54,236	
7,120	
18,205	
238,981	
8,911	
700,400	
409,123	
817,009	
7,030	
50,000	
56,008	
34,347	
198,235	
769,093	
11,312	
100,237	
93,341	
155,203	
365,982	
10,450	

### 4

# Write in standard form:

thirty six thousand, nine hundred forty-one	
seven hundred fifty-two thousand, six hundred-twenty	
five hundred thousand, three hundred thirty-one	
six thousand, four hundred one	
eighty thousand, two hundred eleven	
fifty thousand	
two thousand, five	
one hundred twenty-six thousand, four hundred thirteen	
three hundred forty-two	
seventeen thousand, one hundred twelve	
forty five thousand, six hundred ninety-three	
five hundred thousand, sixteen	
sixty thousand, thirty-two	
eight hundred seventy-one thousand, five hundred twenty-six	
nine thousand, six hundred	
ten thousand, five hundred one	
fifty-two thousand, thirty-four	
ninety two thousand, four hundred sixty-three	
one hundred sixty-five thousand, thirty-five	
eight hundred seventy-two	

# 1 Compare by using >,< , =

367,208	789,112	679,456	88,432
235,267	45,362	11,780	12,904
67,378	154,290	651,628	651,628
4,679	3,839	123,008	123,005
20,349	21,045	45,075	47,234
625,672	625,075	43,906	81,345
129,733	99,235	335,782	23,567
59,200	59,200	980,221	937,234
88,211	90,329	675,900	101,235
6,903	42,331	34,943	34,943
35,870	35,670	720,529	454,721
12,099	111,321	200,908	20,998
459,093	67,087	6,762	45,870
234,567	27,903	112,760	340,236
65,232	64,237	453,609	43,569

### Exercises: Comparing and ordering numbers

# 2 Compare by using >,< or =

456,256	thirty six thousand, four hundred sixty
500,000 + 40,000 + 600 + 20 + 1	982,230
five hundred twenty thousand, nine hundred forty two	615,945
541,432	eighty one thousand, four hundred seventy three
30,000 + 5,000 + 200 + 10 + 4	thirty five thousand, two hundred fourteen
nine hundred thousand, seven hundred forty six	789,325
672,038	600,000 + 70,000 + 2,000 + 100 + 30 + 8
200,000 + 70,000 + 500 + 30 + 1	67,642
956,231	900,000 + 3,000 + 300 + 60 + 5
five hundred thousand, three	seven hundred twenty four
45,782	400,000 + 10,000 + 2,000 + 300
6,000 + 700 + 40 + 9	60,739
100,000 + 1,000 + 600 + 20 + 9	100,000 + 10,000 + 600 + 20 + 9
30,561	three thousand, five hundred sixty one
30,000 + 5,000 + 200 + 10 + 4	250,274

#### **Main objectives:**

Reviews on comparing and ordering numbers.

### 3 Order the numbers in ascending order:

	87,672		780,323		35,073		451,982
The order:		,		,		,	
	46,672		289,045		72,983		30,659
The order:		,		,		,	
	12,567		9,450		10,406		71,342
The order:		,		,	9/3	,	
	55,218		199,530		670,325		9,321
The order:		,		,	<u> </u>	,	
	45,241		672,321		45,341		321,560
The order:		,		,		,	

### Order the numbers in descending order:

	76,239		52,459		23,789		78,902		49,721
The order:		,		,		,		,	
	620,653		43,789		67,670		923,287		679,326
The order:		,		,		,		,	
	5,892		891,583		23,875		98,457		112,005
The order:		,		,		,		,	
	93,672		74,231		930,672		93,342		58,094
The order:		,		,		,		,	

# Exercises: Comparing and ordering numbers

5	Write the	greates	t and the	smallest nu	ımber from	the given digit:	
	6		5		7	8	
Gre	atest num	ber:		Smalle	est number:		
	3		2	6	0	5	
Gre	atest num				est number:		
OI C				Official	st number		
	1	C		9	2	7	
Gre	atest num	ber:		Smalle	est number		
	6	5	3	2	3	8	
Gre	atest num	ber:		Smalle	st number:		
	4		0		2	7	
Gre	atest num	ber:		Smalle	est number		
	5	7	2	9	3	9	
Gre	atest num	ber:		Smalle	est number		
	4		8		0	1	
Gre	atest num	ber:		Smalle	est number:		
	9	3	7	0	2	6	
Gre		her:		Smalle	est number:		
	atest num	DG1					
	atest num		3	2	5	1	



### Represent by a bar graph:

This is a survey about favorite sports in the class:

Football	Handball	Volleyball	sport	tally	Number
Handball	Tennis	Football	Basketball		•••••
Volleyball	Football	Handball	Football		•••••
Football Tennis	Handball Football	Volleyball Football	Volleyball		•••••
Football	Handball	.8	Tennis		•••••
	7 — 6 — 5 — 4 — 3 — 2 — 1 — 0			<b>→</b>	

What is the most favorite sport?

What is the **least** favorite sport?

How many students liked

How many students in all liked

Foot

ball



Volley

How many more students liked than ?

**Tennis** 



Main objectives:

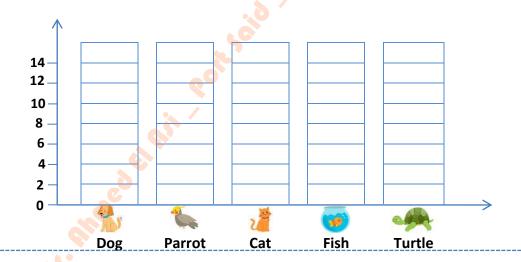
Reviews on graphs.

# Represent by a bar graph

This is a survey about favorite pets in the class:

Cat	Dog	Cat	Fish
Cat	Fish	Dog	Parrot
Dog	Parrot	Cat	Turtle
Cat	Fish	Dog	Cat
Parrot	Dog	Cat	Dog
Cat	Turtle	Parrot	Fish

Pets	tally	Number
Dog		•••••
a Dog		
Parrot		•••••
Cat		•••••
Fish		•••••
Turtle		•••••



What is the most favorite pet?

What is the **least** favorite pet?

How many students liked 🧭 ?

How many students in all liked

🧰 and 🗽 ?



How many more students liked

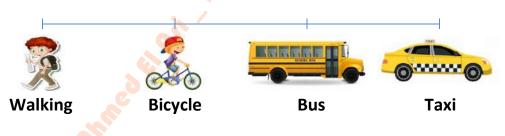




# 3 Represent by a line plot:

This is a survey about favorite transportation:

Marks	tally	Number
Walking	HH HH	•••••
Bicycle	HH	
Bus		
Taxi	HH III	<b></b>



**Key: ×** = **1** 

What is the most frequency transportation?	•••••
What is the least frequency transportation?	•••••
How many students get ?	•••••
How many students in all liked and ?	•••••
How many more students liked than ?	***************************************

# **Measuring length**



object	measure
- KARAKARAKA	cm
	cm
	cm
	cm

# 2 Measure the length of each line:

Line	measure
	cm



### Elapsed time

• Elapsed time is the time that passes from the start to the end of an event.

EX: we start the period at 5:00 and end at 7:00

The elapsed time is 2 hours



#### Note

1 hour = 60 minutes



### Ways to find elapsed time

EX: Omar arrived the training at 3:00 P.M. he leaved the training at 5:20 P.M. How long did he spend at the training?

Start time	End time
9 3 8 4 7 6 5	10 2 1 9 3 3 1 8 7 6 5
3:00	5:20

### Solve:

5.20
5:20 - <u>3:00</u> 2:20

# 1 Use the clock to find the elapsed time:

Start time	End time	Elapsed time
10 2 9 3 8 7 5 4	9 3	
7:00	9:25	

Start time	End time	Elapsed time
11 2 3 9 3 8 7 6 5	10 2 9 2 8 4	
2:00	5:15	

Start time	End time	Elapsed time
10 2 1 9 3 8 7 6 5	11 12 1 10 2 3 8 4.	
3:20	4:45	

Start time	End time	Elapsed time
10 2 1 9 3 3 8 7 6 5	10 2 1 9 3 8 4	
6:15	9:35	

# 2 Find the elapsed time:

Start time	End time	Elapsed time
3:00	5:45	
7:10	9:30	
1:25	2:45	
2:15	4:15	7,50

### 3 Find the elapsed time:

- a) The football game started at 6:00 and finish at 8:10 What is the elapsed time?
- b) Amir went to the zoo and he arrived at 9:20 .He left at 11:35 What is the elapsed time?
- c) Salma made a cake. She put the cake in the oven at 3:10. It takes 25 minutes to well done.

What time will the cake finish?

d) Ahmed spent 40 minutes at karate practice. He finished at 7:55 what time did he start?

• Reviews on elapsed time.

### **Main four operations**



#### 1 Find the result:

$$-$$
 2 1 , 1 2 3

$$-$$
 5 2 , 6 1 5

#### Exercises: Main four operations

30 ÷ 5 = .....

Reviews on main four operations.

#### Exercises: Main four operations



# **Final assessments**

Assessment 1 Model 1

Assessment 2 Model 2

Assessment 3 Model 3



### 1 Choose:

- **a)** The place value of the digit 3 in the number 56,345 is ...........

  Tens Hundreds Thousands
- **b)** Which of the following represent associative property?  $6 \times 7 = 7 \times 6$   $(3 \times 2) \times 5 = 3 \times (2 \times 5)$   $6 \times 6$
- c) The fraction that represents colored parts half third fourth
- d)  $\frac{1}{3}$  .....  $\frac{1}{5}$  =

### 2 Complete:

a) 
$$1 - \frac{3}{7} = \dots$$

**b)** The width of the rectangle whose length is 5 cm and perimeter is 16 cm = ..... cm

c) 
$$\frac{2}{5} = \frac{...}{10}$$

- **d)** The standard form of the number 40,000 + 3,000 + 500 + 70 + 1 is .....
- **e)** 3 × ..... = 21

# 3 Answer the following:

a) Arrange the numbers in ascending order:

56,670

309,275

45,891

452,911

The order:

, ,

**b)** samir has 15 cookies. He gave his sister  $\frac{1}{3}$  of them.

How many cookies with her sister?

c) find the Area of the following shape:



A = ..... cm

#### Final assessment: Model 2

### 1 Choose:

a) The perimeter of the rectangle whose length is 7 cm and width is 2 cm = ..... cm

12

16

18

b) 
$$\frac{2}{5}$$
 < .....

**2 6** 

2

2 7

c) The value of the digit 8 in the number 148,259 is

800

8,000

80,000

d) Which fraction represents the colored part

 $\frac{1}{3}$ 

 $\frac{1}{4}$ 

**1 5** 

**e)** The following equation  $6 \times 4 = 4 \times 6$  is representing ...... Property. commutative associative distributive

## 2 Complete:

**b)** 
$$\frac{1}{4}$$
 of 12 = .....

**c)** The side length of the square whose Area is  $25 \text{ cm}^2 = \dots \text{ cm}$ 

d)
$$\frac{2}{8} + \frac{5}{8} = \dots$$

**e)** 
$$1 = \frac{....}{5}$$

## 3 Answer the following:

a) Find the product:

b) Find the width of the rectangle:

$$A = 20 \text{ cm}^2$$
 ?

5 cm

c) Sara went to the mall and he arrived at 6:30 .she left at 8:45 What is the elapsed time?

#### Final assessment: Model 3



a) 
$$\frac{1}{3} + \frac{2}{3} = \dots$$

$$\frac{2}{3}$$

10

c) 
$$\frac{3}{4} = \dots$$

$$\frac{6}{8}$$

$$\frac{6}{12}$$

$$\frac{1}{3}$$

e) The digit in the place thousands in the number 85,003 is ........

### 2 Complete:

- a) The side length of the square whose perimeter is 28 cm = ...... cm
- **b)** The value of the digit 5 in the number 34,652 is ......

c) 
$$\frac{6}{10} - \frac{2}{10} = \dots$$

**d)** 
$$\frac{1}{3}$$
 of a day = .......

e) The product of 4 times 5 is ......



### Answer the following

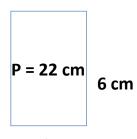
### a) Complete:



×	=
×	=
÷	=

1091509539

### b) Find the length of the rectangle:

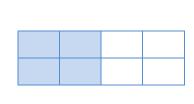


? L = ..... cm

### c) Write the name of each fraction:



<del>------</del> = .....



= .....



<del>......</del> = .....